Abarna_day55

```
#include <stdio.h>
void sort_descending(int arr[], int n) {
  int i, j, temp;
  for (i = 0; i < n - 1; i++) {
     for (j = 0; j < n - i - 1; j++) {
        if (arr[j] < arr[j + 1]) {
           temp = arr[j];
           arr[j] = arr[j + 1];
           arr[j + 1] = temp;
        }
     }
}
int main() {
  int n, i, sum = 0;
  printf("Enter the size of arrays: ");
  scanf("%d", &n);
  int X[n], Y[n];
  printf("Enter elements of array X: ");
  for (i = 0; i < n; i++) {
     scanf("%d", &X[i]);
  }
  printf("Enter elements of array Y: ");
  for (i = 0; i < n; i++) {
     scanf("%d", &Y[i]);
  }
  sort_descending(X, n);
  sort_descending(Y, n);
  for (i = 0; i < n; i++) {
     sum += X[i] * Y[i];
  }
  printf("Maximum scalar product: %d\n", sum);
  return 0;
}
```